

Name: \_\_\_\_\_

### p1029: Box multiplication of linear binomials (v1)

#### Example

Use the box method to multiply  $(6x + 3)$  and  $(2x + 4)$ .

*	$6x$	$3$	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
$4$	$24x$	$12$	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER:  $12x^2 + 30x + 12$

#### Question 1

Use the box method to multiply  $(2x + 5)$  and  $(9x + 3)$ .

*	$2x$	$5$	
$9x$	$18x^2$	$45x$	
$3$	$6x$	$15$	

ANSWER:  $18x^2 + 51x + 15$

### Question 2

Use the box method to multiply  $(-6x + 2)$  and  $(8x + 9)$ .

*	$-6x$	$2$
$8x$	$-48x^2$	$16x$
$9$	$-54x$	$18$

ANSWER:  $-48x^2 - 38x + 18$

### Question 3

Use the box method to multiply  $(-2x + 5)$  and  $(9x + 8)$ .

*	$-2x$	$5$
$9x$	$-18x^2$	$45x$
$8$	$-16x$	$40$

ANSWER:  $-18x^2 + 29x + 40$